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(54) HEAT-RESISTANT INSULATED WIRE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a heat-resistant wire having excellent coating strength by forming a lower layer of specific polysilazane in a heat resistant insulation wire composed of base material, the lower layer coating the base material, and an upper layer coating the lower layer opposite to the base material.

SOLUTION: A lower layer is formed of polysilazane having repetition units -SiR₁R₂-NH- and -SiR₃R₄-Ar-SiR₅R₆-NH- [R₁to₆ is H, (substitution) alkyl, alkenyl, alkoxy, phenyl, aryl, a group containing C; Ar is a group containing one or more of aromatic rings]. It is desirable that the repetition units of the polysilazane are -SiR₁R₂-NH-, -SiR₃R₄-Ar-SiR₅R₆-NH-, -SiR₇R₈-NH-Ar-NH- and -SiR₉R₁₀-Ar-NH-SiR₁₁R₁₂-NH-Ar-NH- (R₇to₁₂ is R₁). It is also desirable that the lower layer contains inorganic powder (for instance silicon dioxide) in addition to the polysilazane.

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